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U.S. Department of the Interior • U.S. Geological Survey

# MINERAL INDUSTRY SURVEYS

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## IRON AND STEEL SCRAP IN DECEMBER 1996

Returns from 75% of monthly respondents that manufacture pig iron and semi-finished steel products, representing 61% of total scrap consumption by that sector, indicated that consumption of iron and steel scrap on a daily average basis in December 1996 fell slightly compared with that in November 1996, according to the U.S. Geological Survey. Compared with November 1996 data, daily average production fell slightly, net receipts fell 5%, and stocks at the end of the month fell slightly.

On a daily average basis, pig iron production fell 3% and consumption fell slightly from that in November 1996. Stocks of pig iron at month's end rose 12% compared with those at the end of November 1996.

Exports of ferrous scrap for the month of November 1996 fell slightly compared with that in October 1996. Korea was the principal country of destination, accounting for 23% of the total exports in November 1996, followed by Canada with 19% and Malaysia with 15%.

Table 7 shows that New York, NY, was the leading customs district for tonnage of exports in November 1996, accounting for 24% of total exports, followed by Los Angeles, CA, with 14% and San Francisco, CA, with 12%.

Table 10 reveals that Detroit, MI, was the leading customs

district for tonnage imports in November 1996, accounting for 64% of the total imports, followed by Seattle, WA, with 12% and Buffalo, NY, with 11%.

According to the American Iron and Steel Institute (AISI), domestic raw steel production in December 1996 amounted to 7,880,000 metric tons, up 5% from 7,510,000 metric tons in November 1996, and up slightly from 7,870,000 metric tons in December 1995. Year-to-date production through December 1996 was 94,700,000 metric tons, up slightly compared with 93,600,000 metric tons for the same period 1 year ago. The electric furnace portion of raw steel production for December 1996 was 41%, down slightly from that in November 1996, and up slightly from that in December 1995.

According to the AISI, raw steel capability utilization in December 1996 was 88%, up slightly from that in November 1996, and down slightly from that in December 1995. Continuous cast steel production in the United States accounted for 94% of total raw steel production in December 1996, and was unchanged from that in November 1996, and up slightly from that in December 1995. Through December, continuous cast steel production represented 93% of total steel production in 1996 compared with 91% in 1995.

TABLE 1  
IRON AND STEEL SCRAP, PIG IRON, AND DIRECT-REDUCED IRON STATISTICS 1/ FOR STEEL PRODUCERS 2/

(Thousand metric tons)

|   | December 1996                 |                                     |                           | Year to date                  |                                     |                           |
|---|-------------------------------|-------------------------------------|---------------------------|-------------------------------|-------------------------------------|---------------------------|
|   | Integrated steel producers 3/ | Electric furnace steel producers 4/ | Total for steel producers | Integrated steel producers 3/ | Electric furnace steel producers 4/ | Total for steel producers |
| Scrap:                                  |                               |                                     |                           |                               |                                     |                           |
| Receipts from dealers and other sources | 710                           | 2,500                               | 3,200                     | 8,300                         | 31,000                              | 40,000                    |
| Receipts from other own company plants  | W                             | W                                   | 180                       | W                             | W                                   | 2,200                     |
| Production recirculating scrap          | 740                           | 400                                 | 1,100                     | 9,200                         | 5,100                               | 14,000                    |
| Production obsolete scrap               | 33                            | 3                                   | 36                        | 230                           | 50                                  | 280                       |
| Consumption (by type of furnace):       |                               |                                     |                           |                               |                                     |                           |
| Blast furnace                           | 160                           | --                                  | 160                       | 1,700                         | --                                  | 1,700                     |
| Basic oxygen process                    | W                             | W                                   | 1,400                     | W                             | W                                   | 15,000                    |
| Electric furnace                        | W                             | W                                   | 3,000                     | W                             | W                                   | 37,000                    |
| Total consumption                       | 1,500                         | 3,000                               | 4,500                     | 17,000                        | 37,000                              | 54,000                    |
| Shipments                               | W                             | W                                   | 200                       | W                             | W                                   | 2,400                     |
| Stocks end of month                     | 2,100                         | 2,600                               | 4,700                     | XX                            | XX                                  | XX                        |
| Pig iron (includes hot metal):          |                               |                                     |                           |                               |                                     |                           |
| Receipts                                | 390                           | 230                                 | 620                       | 7,300                         | 1,900                               | 9,200                     |
| Production                              | 4,100                         | --                                  | 4,100                     | 45,000                        | --                                  | 45,000                    |
| Consumption (by type of furnace):       |                               |                                     |                           |                               |                                     |                           |
| Basic oxygen process                    | W                             | W                                   | 4,200                     | W                             | W                                   | 49,000                    |
| Electric furnace                        | W                             | W                                   | 150                       | W                             | W                                   | 1,600                     |
| Total consumption                       | 4,200                         | 150                                 | 4,400                     | 49,000                        | 1,600                               | 50,000                    |
| Shipments                               | (5/)                          | --                                  | (5/)                      | (5/)                          | --                                  | (5/)                      |
| Stocks end of month                     | 170                           | 360                                 | 530                       | XX                            | XX                                  | XX                        |
| Direct-reduced iron: 6/                 |                               |                                     |                           |                               |                                     |                           |
| Receipts                                | 59                            | 59                                  | 120                       | 570                           | 720                                 | 1,300                     |
| Consumption (by type of furnace):       |                               |                                     |                           |                               |                                     |                           |
| Blast furnace                           | 95                            | --                                  | 95                        | 1,300                         | --                                  | 1,300                     |
| Basic oxygen process                    | (7/)                          | --                                  | (7/)                      | (7/)                          | --                                  | (7/)                      |
| Electric furnace                        | --                            | (5/)                                | (5/)                      | --                            | (5/)                                | (5/)                      |
| Total consumption                       | 95                            | (5/)                                | 95                        | 1,300                         | (5/)                                | 1,300                     |
| Shipments                               | --                            | --                                  | --                        | (5/)                          | --                                  | (5/)                      |
| Stocks end of month                     | 160                           | 100                                 | 270                       | XX                            | XX                                  | XX                        |

W Withheld to avoid disclosing company proprietary data; included in "Total for steel producers" and/or "Total consumption." XX Not applicable.

1/ Data are rounded to two significant digits; may not add to totals shown.

2/ Includes manufacturers of raw steel that also produce steel castings. December 1996 is based on returns from 75% of monthly respondents, representing 61% of scrap consumption; year to date is based on returns from 80% of respondents, representing 66% of scrap consumption.

3/ Includes data for electric furnaces operated by integrated steel producers.

4/ Includes minimill and specialty steel producers; includes data for other furnaces operated by these steel producers.

5/ Withheld to avoid disclosing company proprietary data.

6/ Includes direct-reduced iron, hot-briquetted iron, and iron carbide. Domestic production data are included in "Receipts."

7/ Withheld to avoid disclosing company proprietary data; included in "Consumption: Blast furnace."

TABLE 2  
RECEIPTS FROM OUTSIDE SOURCES, PRODUCTION, CONSUMPTION, AND STOCKS OF IRON AND STEEL SCRAP, BY GRADE, 1/ FOR STEEL PRODUCERS 2/

(Thousand metric tons)

| Item  | December 1996  |  |  |               | Year to date   |  |  |
|---|--|--|--|---------------|--|--|--|
|   | Receipts of scrap from brokers, dealers, and other outside sources | Production of home scrap (recirculating scrap resulting from current operations) | Consumption of purchased and home scrap 3/ | Ending stocks | Receipts of scrap from brokers, dealers, and other outside sources | Production of home scrap (recirculating scrap resulting from current operations) | Consumption of purchased and home scrap 3/ |
| Carbon steel:                                   |  |  |  |               |  |  |  |
| Low-phosphorus plate and punchings              | 32   | W  | 32   | 18            | 420  | W  | 380  |
| Cut structural and plate                        | 310  | 52   | 350  | 350           | 3,500  | 760  | 4,200                                      |
| No. 1 heavy melting steel                       | 490  | 290  | 850  | 720           | 6,200  | 3,900  | 10,000                                     |
| No. 2 heavy melting steel                       | 360  | 37   | 440  | 430           | 4,600  | 580  | 5,200                                      |
| No. 1 and electric furnace bundles              | 460  | W  | 590  | 460           | 5,700  | W  | 6,900                                      |
| No. 2 and all other bundles                     | 84   | W  | 80   | 67            | 1,100  | W  | 110  |
| Electric furnace 1 foot and under (not bundles) | 1  | 11   | W  | 1             | W  | W  | 110  |
| Railroad rails                                  | 9  | W  | 13   | 5             | 130  | W  | 170  |
| Turnings and borings                            | 180  | 9  | 180  | 120           | 2,000  | 140  | 2,200                                      |
| Slag scrap                                      | 51   | 110  | 180  | 170           | 740  | 1,400  | 2,200                                      |
| Shredded and fragmentized                       | 520  | W  | 670  | 470           | 6,800  | W  | 8,300                                      |
| No. 1 busheling                                 | 320  | W  | 320  | 250           | 3,800  | W  | 3,800                                      |
| Steel cans (Post consumer)                      | 29   | W  | 35   | W             | 250  | W  | 300  |
| All other carbon steel scrap                    | 190  | 270  | 440  | 400           | 2,100  | 3,200  | 4,900                                      |
| Stainless steel scrap                           | 43   | 40   | 85   | 43            | 580  | 440  | 1,000                                      |
| Alloy steel scrap                               | 13   | 39   | 57   | 75            | 170  | 510  | 720  |
| Ingot mold and stool scrap                      | W  | W  | 6  | 23            | W  | 130  | 96   |
| Machinery and cupola cast iron                  | 4  | W  | 4  | 4             | 69   | W  | W  |
| Cast iron borings                               | 15   | W  | 17   | W             | 200  | W  | 190  |
| Motor blocks                                    | W  | --   | 380  | W             | W  | --   | W  |
| Other iron scrap                                | 28   | 44   | 4,200                                      | W             | 470  | 440  | 970  |
| Other mixed scrap                               | 74   | 45   | 100  | W             | 890  | 490  | 1,200                                      |
| Total   | 3,200  | 1,100  | 4,500                                      | 4,700         | 40,000   | 14,000   | 54,000                                     |

W Withheld to avoid disclosing company proprietary data; included in "Total."

1/ Data are rounded to two significant digits; may not add to totals shown.

2/ Includes manufacturers of raw steel that also produce steel castings.

3/ Includes recirculating scrap and home-generated obsolete scrap.

TABLE 3  
RECEIPTS FROM OUTSIDE SOURCES, PRODUCTION, AND CONSUMPTION OF IRON AND STEEL SCRAP, 1/  
BY REGION AND STATE, FOR STEEL PRODUCERS 2/

(Thousand metric tons)

| Region and State  | December 1996  |  |  | Year to date   |  |  |
|---|--|--|--|--|--|--|
|   | Receipts of scrap from brokers, dealers, and other outside sources | Production of home scrap (recirculating scrap resulting from current operations) | Consumption of purchased and home scrap 3/ | Receipts of scrap from brokers, dealers, and other outside sources | Production of home scrap (recirculating scrap resulting from current operations) | Consumption of purchased and home scrap 3/ |
| Mid-Atlantic and New England:                           |  |  |  |  |  |  |
| New Jersey, New York                                    | 93   | 6  | 99   | 900  | 53   | 960  |
| Pennsylvania  | 310  | 210  | 540  | 3,900  | 2,500  | 6,500                                      |
| Total   | 410  | 210  | 640  | 4,800  | 2,600  | 7,500                                      |
| North Central:  |  |  |  |  |  |  |
| Illinois  | 260  | 100  | 430  | 3,900  | 1,300  | 5,100                                      |
| Indiana   | 280  | 360  | 650  | 3,200  | 4,400  | 7,600                                      |
| Iowa, Minnesota, Missouri, Nebraska, Wisconsin          | 210  | 18   | 210  | 2,300  | 210  | 2,400                                      |
| Michigan  | 180  | 62   | 250  | 2,300  | 730  | 2,900                                      |
| Ohio  | 400  | 130  | 580  | 5,200  | 1,800  | 6,900                                      |
| Total   | 1,300  | 680  | 2,100                                      | 17,000   | 8,500  | 25,000                                     |
| South Atlantic:   |  |  |  |  |  |  |
| Delaware, Maryland, Virginia, West Virginia             | 140  | 71   | 210  | 1,700  | 910  | 2,600                                      |
| Florida, Georgia, North Carolina, South Carolina        | 180  | 18   | 190  | 2,100  | 230  | 2,300                                      |
| Total   | 320  | 89   | 400  | 3,800  | 1,100  | 4,900                                      |
| South Central:  |  |  |  |  |  |  |
| Alabama, Kentucky, Mississippi, Tennessee               | 280  | 56   | 360  | 3,400  | 720  | 4,200                                      |
| Arkansas, Louisiana, Oklahoma, Texas                    | 600  | 60   | 700  | 7,400  | 680  | 8,800                                      |
| Total   | 880  | 120  | 1,100                                      | 11,000   | 1,400  | 13,000                                     |
| Mountain and Pacific:                                   |  |  |  |  |  |  |
| Arizona, California, Colorado, Oregon, Utah, Washington | 280  | 41   | 330  | 3,400  | 660  | 4,100                                      |
| Grand total   | 3,200  | 1,100  | 4,500                                      | 40,000   | 14,000   | 54,000                                     |

1/ Data are rounded to two significant digits; may not add to totals shown.

2/ Includes manufacturers of raw steel that also produce steel castings.

3/ Includes recirculating scrap and home-generated obsolete scrap.

TABLE 4  
RECEIPTS OF IRON AND STEEL SCRAP, 1/ BY REGION 2/ AND GRADE, FOR STEEL PRODUCERS 3/ 4/

(Thousand metric tons)

| Item  | December 1996                      |                  |                   |                  |                            | Year to date                       |                  |                   |                  |                            |
|---|------------------------------------|------------------|-------------------|------------------|----------------------------|------------------------------------|------------------|-------------------|------------------|----------------------------|
|   | Mid-Atlantic<br>and<br>New England | North<br>Central | South<br>Atlantic | South<br>Central | Mountain<br>and<br>Pacific | Mid-Atlantic<br>and<br>New England | North<br>Central | South<br>Atlantic | South<br>Central | Mountain<br>and<br>Pacific |
| Carbon steel:                                   |                                    |                  |                   |                  |                            |                                    |                  |                   |                  |                            |
| Low-phosphorus plate and punchings              | 13                                 | 18               | W                 | W                | --                         | 210                                | 180              | W                 | W                | --                         |
| Cut structural and plate                        | 44                                 | 110              | 65                | 71               | W                          | 480                                | 1,200            | 780               | 810              | 280                        |
| No. 1 heavy melting steel                       | 45                                 | 190              | 33                | 180              | 43                         | 590                                | 2,600            | 410               | 2,200            | 510                        |
| No. 2 heavy melting steel                       | 26                                 | 93               | 37                | 150              | 60                         | 220                                | 1,500            | 380               | 1,800            | 620                        |
| No. 1 and electric furnace bundles              | 36                                 | 350              | 26                | 38               | 6                          | 420                                | 4,300            | 310               | 610              | 78                         |
| No. 2 and all other bundles                     | 9                                  | 34               | 7                 | 24               | 10                         | 100                                | 390              | 88                | 330              | 150                        |
| Electric furnace 1 foot and under (not bundles) | --                                 | 1                | --                | --               | --                         | W                                  | 11               | --                | W                | --                         |
| Railroad rails                                  | W                                  | 1                | --                | W                | 3                          | W                                  | 16               | --                | 38               | 63                         |
| Turnings and borings                            | 26                                 | 28               | 29                | 99               | 3                          | 310                                | 370              | 310               | 980              | 47                         |
| Slag scrap                                      | 8                                  | 21               | W                 | 9                | 1                          | 110                                | 340              | W                 | 160              | 11                         |
| Shredded and fragmentized                       | 57                                 | 150              | 69                | 160              | 84                         | 570                                | 2,300            | 820               | 2,200            | 930                        |
| No. 1 busheling                                 | 58                                 | 130              | 23                | 98               | 8                          | 740                                | 1,600            | 300               | 1,100            | 120                        |
| Steel cans (Post consumer)                      | W                                  | W                | 5                 | W                | (5/)                       | W                                  | W                | 59                | W                | 3                          |
| All other carbon steel scrap                    | 18                                 | 120              | 5                 | 30               | 9                          | 180                                | 1,400            | 60                | 380              | 100                        |
| Stainless steel scrap                           | 39                                 | W                | --                | --               | --                         | 540                                | W                | --                | (5/)             | --                         |
| Alloy steel scrap                               | 8                                  | 4                | (5/)              | W                | --                         | 110                                | 43               | 2                 | W                | --                         |
| Ingot mold and stool scrap                      | W                                  | 1                | --                | --               | --                         | W                                  | 2                | --                | --               | --                         |
| Machinery and cupola cast iron                  | --                                 | 4                | --                | (5/)             | --                         | --                                 | 63               | --                | W                | --                         |
| Cast iron borings                               | W                                  | W                | --                | 5                | --                         | W                                  | W                | --                | 69               | --                         |
| Motor blocks                                    | (5/)                               | --               | W                 | --               | --                         | (5/)                               | --               | W                 | --               | --                         |
| Other iron scrap                                | W                                  | W                | W                 | W                | --                         | 67                                 | W                | W                 | 82               | 3                          |
| Other mixed scrap                               | W                                  | 32               | W                 | W                | 31                         | W                                  | 330              | W                 | W                | 440                        |
| Total   | 410                                | 1,300            | 320               | 880              | 280                        | 4,800                              | 17,000           | 3,800             | 11,000           | 3,400                      |

W Withheld to avoid disclosing company proprietary data; included in "Total."

1/ Scrap received from brokers, dealers, and other outside sources.

2/ A breakout of the States within each region is provided in Table 3.

3/ Includes manufacturers of raw steel that also produce steel castings.

4/ Data are rounded to two significant digits; may not add to totals shown.

5/ Less than 1/2 unit.

TABLE 5  
CONSUMPTION OF IRON AND STEEL SCRAP 1/ BY REGION 2/ AND GRADE, FOR STEEL PRODUCERS 3/

(Thousand metric tons)

| Item  | December 1996                      |                  |                   |                  |                            | Year to date                       |                  |                   |                  |                            |
|---|------------------------------------|------------------|-------------------|------------------|----------------------------|------------------------------------|------------------|-------------------|------------------|----------------------------|
|   | Mid-Atlantic<br>and<br>New England | North<br>Central | South<br>Atlantic | South<br>Central | Mountain<br>and<br>Pacific | Mid-Atlantic<br>and<br>New England | North<br>Central | South<br>Atlantic | South<br>Central | Mountain<br>and<br>Pacific |
| Carbon steel:                                   |                                    |                  |                   |                  |                            |                                    |                  |                   |                  |                            |
| Low-phosphorus plate and punchings              | 16                                 | 13               | W                 | W                | --                         | 210                                | 140              | W                 | W                | --                         |
| Cut structural and plate                        | 53                                 | 110              | 92                | 69               | W                          | 640                                | 1,400            | 1,100             | 790              | W                          |
| No. 1 heavy melting steel                       | 96                                 | 410              | 65                | 200              | 84                         | 1,100                              | 4,800            | 740               | 2,500            | 1,100                      |
| No. 2 heavy melting steel                       | 31                                 | 150              | 27                | 160              | 73                         | 310                                | 1,800            | 370               | 2,000            | 660                        |
| No. 1 and electric furnace bundles              | 54                                 | 450              | 30                | 54               | 5                          | 630                                | 5,200            | 350               | 640              | 79                         |
| No. 2 and all other bundles                     | 10                                 | 28               | 7                 | 25               | 10                         | 110                                | 430              | 91                | 340              | 150                        |
| Electric furnace 1 foot and under (not bundles) | --                                 | 8                | --                | W                | --                         | W                                  | 99               | --                | W                | --                         |
| Railroad rails                                  | W                                  | 1                | --                | W                | 3                          | W                                  | 14               | --                | 38               | 64                         |
| Turnings and borings                            | 27                                 | 38               | 28                | 78               | 5                          | 350                                | 500              | 310               | 970              | 53                         |
| Slag scrap                                      | 22                                 | 110              | 19                | 27               | 1                          | 280                                | 1,300            | 210               | 400              | 11                         |
| Shredded and fragmentized                       | 76                                 | 210              | 77                | 240              | 74                         | 850                                | 2,600            | 970               | 3,000            | 930                        |
| No. 1 busheling                                 | 64                                 | 130              | 22                | 95               | 9                          | 790                                | 1,600            | 300               | 1,000            | 120                        |
| Steel cans (Post consumer)                      | W                                  | 13               | 4                 | W                | (4/)                       | W                                  | 140              | 56                | W                | 3                          |
| All other carbon steel scrap                    | 44                                 | 300              | 16                | 72               | W                          | 510                                | 3,200            | 200               | 790              | W                          |
| Stainless steel scrap                           | 79                                 | W                | --                | --               | --                         | 940                                | 95               | --                | 1                | --                         |
| Alloy steel scrap                               | 17                                 | 36               | (4/)              | 3                | --                         | 260                                | 450              | 1                 | 44               | --                         |
| Ingot mold and stool scrap                      | W                                  | W                | --                | W                | W                          | W                                  | W                | --                | 20               | W                          |
| Machinery and cupola cast iron                  | --                                 | 4                | --                | 1                | --                         | --                                 | W                | --                | W                | --                         |
| Cast iron borings                               | W                                  | W                | --                | 6                | --                         | W                                  | W                | --                | 70               | --                         |
| Motor blocks                                    | (4/)                               | --               | W                 | --               | --                         | (4/)                               | --               | W                 | --               | --                         |
| Other iron scrap                                | 17                                 | 42               | W                 | 14               | W                          | W                                  | 470              | W                 | 98               | W                          |
| Other mixed scrap                               | 13                                 | 46               | W                 | 11               | 27                         | 150                                | 490              | W                 | 110              | 450                        |
| Total   | 640                                | 2,100            | 400               | 1,100            | 330                        | 7,500                              | 25,000           | 4,900             | 13,000           | 4,100                      |

W Withheld to avoid disclosing company proprietary data; included in "Total."

1/ Data are rounded to two significant digits; may not add to totals shown.

2/ A breakout of the States within each region is provided in Table 3.

3/ Includes manufacturers of raw steel that also produce steel castings.

4/ Less than 1/2 unit.

TABLE 6  
U.S. EXPORTS OF IRON AND STEEL SCRAP 1/ BY SELECTED REGION AND COUNTRY 2/

(Thousand metric tons and thousand dollars)

| Region and country               | November 1996 |        | Year to date |           |
|----------------------------------|---------------|--------|--------------|-----------|
|                                  | Quantity      | Value  | Quantity     | Value     |
| North America and South America: |               |        |              |           |
| Canada                           | 104           | 13,400 | 1,160        | 161,000   |
| Mexico                           | 69            | 9,620  | 1,080        | 142,000   |
| Venezuela                        | 25            | 2,970  | 260          | 47,200    |
| Other                            | 2             | 531    | 90           | 13,100    |
| Total                            | 199           | 26,600 | 2,600        | 363,000   |
| Africa, Europe, and Middle East: |               |        |              |           |
| Belgium                          | (3/)          | 3      | 3            | 2,330     |
| Italy                            | (3/)          | 149    | 8            | 6,520     |
| South Africa                     | 1             | 1,060  | 12           | 10,500    |
| Spain                            | --            | --     | 60           | 46,600    |
| Turkey                           | 32            | 3,430  | 714          | 97,300    |
| Other                            | 1             | 621    | 38           | 20,500    |
| Total                            | 34            | 5,270  | 835          | 184,000   |
| Asia, Australia, and Oceania:    |               |        |              |           |
| Australia                        | 2             | 818    | 8            | 2,420     |
| China                            | 67            | 9,290  | 241          | 48,700    |
| Hong Kong                        | 6             | 1,190  | 82           | 21,400    |
| India                            | 28            | 3,500  | 377          | 53,600    |
| Japan                            | 5             | 2,800  | 117          | 38,200    |
| Korea, Republic of               | 126           | 20,000 | 2,450        | 370,000   |
| Malaysia                         | 81            | 9,530  | 567          | 71,400    |
| Pakistan                         | (3/)          | 23     | 2            | 1,330     |
| Taiwan                           | 3             | 1,780  | 273          | 62,900    |
| Thailand                         | --            | --     | 141          | 19,600    |
| Other                            | 1             | 147    | 30           | 4,800     |
| Total                            | 319           | 49,100 | 4,290        | 695,000   |
| Grand total                      | 552           | 80,900 | 7,720        | 1,240,000 |

1/ Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping. Export valuation is on a "free alongside ship" (f.a.s.) basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Less than 1/2 unit.

Source: Bureau of the Census.

TABLE 7  
U.S. EXPORTS 1/ OF IRON AND STEEL SCRAP 2/ BY REGION AND SELECTED CUSTOMS DISTRICT 3/

(Thousand metric tons and thousand dollars)

| Region and customs district   | November 1996 |        | Year to date |           |
|---|---------------|--------|--------------|-----------|
|   | Quantity      | Value  | Quantity     | Value     |
| Canadian-U.S. Border:   |               |        |              |           |
| Buffalo, NY   | 10            | 2,830  | 84           | 31,500    |
| Detroit, MI   | 22            | 3,250  | 224          | 40,000    |
| Duluth, MN  | 2             | 196    | 99           | 11,000    |
| Pembina, ND   | 24            | 2,480  | 251          | 28,700    |
| Other 4/  | 47            | 4,780  | 513          | 50,500    |
| Total   | 105           | 13,500 | 1,170        | 162,000   |
| East Coast:   |               |        |              |           |
| Boston, MA  | 13            | 1,500  | 527          | 68,300    |
| Miami, FL   | 1             | 404    | 100          | 17,500    |
| New York, NY  | 132           | 16,300 | 1,070        | 165,000   |
| Norfolk, VA   | (5/)          | 406    | 196          | 25,500    |
| Philadelphia, PA  | 21            | 2,530  | 279          | 34,400    |
| Portland, ME  | (5/)          | 8      | 164          | 20,400    |
| Providence, RI  | --            | --     | 293          | 38,000    |
| Other   | 1             | 503    | 27           | 12,700    |
| Total   | 169           | 21,700 | 2,650        | 382,000   |
| Gulf Coast & Mexican-U.S.<br>Border (includes Caribbean territories): |               |        |              |           |
| Houston-Galveston, TX   | 4             | 2,860  | 50           | 32,000    |
| Laredo, TX  | 31            | 4,130  | 500          | 63,700    |
| New Orleans, LA   | 3             | 1,940  | 148          | 55,300    |
| Tampa, FL   | 21            | 2,670  | 334          | 43,900    |
| Other   | 4             | 628    | 73           | 26,200    |
| Total   | 64            | 12,200 | 1,110        | 221,000   |
| West Coast:   |               |        |              |           |
| Honolulu, HI, and Anchorage, AK                                       | (5/)          | 34     | 95           | 14,100    |
| Columbia-Snake  | 32            | 4,820  | 105          | 20,500    |
| Los Angeles, CA   | 77            | 12,600 | 1,080        | 190,000   |
| San Diego, CA   | 16            | 2,810  | 217          | 28,100    |
| San Francisco, CA   | 64            | 9,560  | 940          | 169,000   |
| Seattle, WA   | 27            | 3,630  | 357          | 55,800    |
| Total   | 215           | 33,500 | 2,790        | 477,000   |
| Grand total   | 552           | 80,900 | 7,720        | 1,240,000 |

1/ Re-export activity for November 1996 amounted to 329 metric tons valued at \$58,200; year to date amounted to 7,080 metric tons valued at \$1,920,000.

2/ Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping. Export valuation is on a "free alongside ship" (f.a.s.) basis.

3/ Data are rounded to three significant digits; may not add to totals shown.

4/ Includes Code 70, which is for low-valued exports from the United States to Canada.

5/ Less than 1/2 unit.

Source: Bureau of the Census.



TABLE 8  
U.S. EXPORTS OF IRON AND STEEL SCRAP AND OTHER FERROUS PRODUCTS BY GRADE 1/ 2/

(Thousand metric tons and thousand dollars)

| Item  | November 1996 |        | Year to date |           |
|---|---------------|--------|--------------|-----------|
|   | Quantity      | Value  | Quantity     | Value     |
| No. 1 heavy melting steel                                       | 141           | 16,400 | 1,820        | 235,000   |
| No. 2 heavy melting steel                                       | 16            | 1,700  | 476          | 58,300    |
| No. 1 bundles   | 3             | 327    | 95           | 11,600    |
| No. 2 bundles   | 1             | 94     | 124          | 14,000    |
| Shredded steel scrap  | 171           | 20,900 | 2,360        | 326,000   |
| Borings, shovelings and turnings                                | 20            | 1,960  | 236          | 24,200    |
| Cut plate and structural  | 58            | 6,930  | 510          | 67,200    |
| Tinned iron or steel  | 3             | 1,180  | 48           | 17,800    |
| Remelting scrap ingots  | (3/)          | 77     | 3            | 781       |
| Cast iron   | 28            | 3,330  | 579          | 64,000    |
| Other iron and steel  | 31            | 4,550  | 561          | 90,000    |
| Total carbon steel and cast iron                                | 473           | 57,400 | 6,820        | 909,000   |
| Stainless steel   | 22            | 14,500 | 279          | 217,000   |
| Other alloy steel   | 58            | 9,020  | 625          | 116,000   |
| Total stainless and alloy steel                                 | 80            | 23,500 | 903          | 333,000   |
| Total carbon, stainless, alloy steel and cast iron              | 552           | 80,900 | 7,720        | 1,240,000 |
| Ships, boats, and other vessels for breaking up (for scrapping) | (3/)          | 48     | 24           | 2,690     |
| Used rails for rerolling and other uses                         | 1             | 269    | 19           | 5,850     |
| Total scrap exports   | 553           | 81,200 | 7,760        | 1,250,000 |
| Exports of manufactured ferrous products:                       |               |        |              |           |
| Pig iron < or = 0.5% phosphorus                                 | 2             | 507    | 40           | 5,400     |
| Pig iron > 0.5% phosphorus                                      | (3/)          | 21     | 6            | 1,210     |
| Alloy pig iron  | --            | --     | --           | --        |
| Total pig iron  | 3             | 527    | 46           | 6,620     |
| Direct-reduced iron (DRI)                                       | (3/)          | 15     | 3            | 286       |
| Spongy iron products, not DRI                                   | (3/)          | 461    | 7            | 3,240     |
| Granules for abrasive cleaning and other uses                   | 2             | 1,000  | 23           | 14,000    |
| Powders of alloy steel  | (3/)          | 370    | 4            | 16,500    |
| Other ferrous powders   | 2             | 6,250  | 23           | 46,400    |
| Total DRI, granules and powders                                 | 4             | 8,100  | 60           | 80,400    |
| Grand total   | 560           | 89,900 | 7,870        | 1,340,000 |

1/ Export valuation is on a "free alongside ship" (f.a.s.) basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Less than 1/2 unit.

Source: Bureau of the Census.

TABLE 9  
U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP 1/ 2/ BY SELECTED COUNTRY

(Thousand metric tons and thousand dollars)

| Country        | November 1996 |        | Year to date |         |
|----------------|---------------|--------|--------------|---------|
|                | Quantity      | Value  | Quantity     | Value   |
| Brazil         | 5             | 246    | 8            | 1,640   |
| Canada         | 167           | 19,700 | 1,770        | 230,000 |
| Mexico         | 6             | 1,540  | 109          | 26,100  |
| United Kingdom | 16            | 223    | 47           | 5,540   |
| Venezuela      | 65            | 5,330  | 239          | 21,700  |
| Other          | 4             | 1,270  | 237          | 32,800  |
| Total          | 262           | 28,400 | 2,410        | 318,000 |

1/ Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping. Import valuation is on a customs basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 10  
U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP 1/ 2/  
BY SELECTED CUSTOMS DISTRICT

(Thousand metric tons and thousand dollars)

| Customs district | November 1996 |        | Year to date |         |
|------------------|---------------|--------|--------------|---------|
|                  | Quantity      | Value  | Quantity     | Value   |
| Baltimore, MD    | 5             | 240    | 21           | 1,400   |
| Buffalo, NY      | 28            | 4,460  | 395          | 59,400  |
| Cleveland, OH    | 16            | 197    | 63           | 6,160   |
| Detroit, MI      | 167           | 16,900 | 1,120        | 136,000 |
| El Paso, TX      | 3             | 360    | 42           | 5,970   |
| Great Falls, MT  | 2             | 235    | 25           | 2,880   |
| Laredo, TX       | 2             | 890    | 47           | 15,500  |
| New Orleans, LA  | 2             | 334    | 186          | 21,800  |
| Ogdensburg, NY   | 1             | 352    | 14           | 3,850   |
| Seattle, WA      | 32            | 3,190  | 364          | 38,000  |
| Other            | 3             | 1,210  | 136          | 26,600  |
| Total            | 262           | 28,400 | 2,410        | 318,000 |

1/ Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping. Import valuation is on a customs basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 11  
U.S. IMPORTS OF IRON AND STEEL SCRAP AND OTHER FERROUS PRODUCTS BY GRADE 1/ 2/

(Thousand metric tons and thousand dollars)

| Item  | November 1996 |        | Year to date |         |
|---|---------------|--------|--------------|---------|
|   | Quantity      | Value  | Quantity     | Value   |
| No. 1 heavy melting steel                                       | 2             | 265    | 109          | 12,900  |
| No. 2 heavy melting steel                                       | 1             | 119    | 21           | 2,510   |
| No. 1 bundles   | 27            | 3,200  | 216          | 25,500  |
| No. 2 bundles   | 1             | 134    | 17           | 2,060   |
| Shredded steel scrap  | 8             | 801    | 79           | 10,500  |
| Borings, shovelings and turnings                                | 8             | 855    | 114          | 11,400  |
| Cut plate and structural  | 24            | 1,070  | 140          | 11,300  |
| Tinned iron or steel  | 4             | 392    | 62           | 5,320   |
| Remelting scrap ingots  | (3/)          | 69     | 58           | 9,770   |
| Cast iron   | 12            | 1,350  | 191          | 25,400  |
| Other iron and steel  | 132           | 14,100 | 1,030        | 130,000 |
| Total carbon steel and cast iron                                | 221           | 22,400 | 2,040        | 246,000 |
| Stainless steel   | 4             | 2,340  | 47           | 26,200  |
| Other alloy steel   | 37            | 3,650  | 328          | 45,400  |
| Total stainless and alloy steel                                 | 41            | 5,990  | 375          | 71,500  |
| Total carbon, stainless, alloy steel and cast iron              | 262           | 28,400 | 2,410        | 318,000 |
| Ships, boats, and other vessels for breaking up (for scrapping) | --            | --     | (3/)         | 90      |
| Used rails for rerolling and other uses                         | 24            | 4,300  | 204          | 35,300  |
| Total scrap imports   | 286           | 32,700 | 2,620        | 353,000 |
| Imports of manufactured ferrous products:                       |               |        |              |         |
| Pig iron < or = 0.5% phosphorus                                 | 188           | 27,700 | 2,240        | 350,000 |
| Pig iron > 0.5% phosphorus                                      | 8             | 1,100  | 107          | 15,000  |
| Alloy pig iron  | 8             | 1,710  | 103          | 15,700  |
| Total pig iron  | 204           | 30,500 | 2,450        | 381,000 |
| Direct-reduced iron (DRI)                                       | 35            | 4,710  | 940          | 122,000 |
| Spongy iron products, not DRI                                   | 1             | 1,020  | 26           | 4,490   |
| Granules for abrasive cleaning and other uses                   | 2             | 1,050  | 18           | 11,200  |
| Powders of alloy steel  | 2             | 3,110  | 20           | 31,700  |
| Other ferrous powders   | 8             | 5,750  | 77           | 67,000  |
| Total DRI, granules and powders                                 | 48            | 15,600 | 1,080        | 236,000 |
| Grand total   | 538           | 78,800 | 6,150        | 970,000 |

1/ Import valuation is on a customs basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Less than 1/2 unit.

Source: Bureau of the Census.